

A0	A1	B0	B1	S0 (A>B)	S1 (A==B)	S2 (A<B)
0	0	0	0	0	1	0
0	1	0	0	1	0	0
1	0	0	0	1	0	0
1	1	0	0	1	0	0
0	0	0	1	0	0	1
0	1	0	1	0	1	0
1	0	0	1	1	0	0
1	1	0	1	1	0	0
0	0	1	0	0	0	1
0	1	1	0	0	0	1
1	0	1	0	0	1	0
1	1	1	0	1	0	0
0	0	1	1	0	0	1
0	1	1	1	0	0	1
1	0	1	1	0	0	1
1	1	1	1	0	1	0

B0B1	S0				A0B0' + A0A1'B1 + A1B0'B1'
A0A1	00	01	10	11	
00					
01	1				
10	1	1			
11	1	1	1		
B0B1	S1				A0A1'B0B1' + A0A1B0B1 + A0'A1B0'B1 + A0'A1'B0'B1'
A0A1	00	01	10	11	
00	1				
01		1			
10			1		
11				1	
B0B1	S2				A0'B0 + A1B0B1' + A0'A1'B1
A0A1	00	01	10	11	
00		1	1	1	
01			1	1	
10				1	
11					